

2117pct.ST25
SEQUENCE LISTING

<110> INSTITUT DE LA RECHERCHE POUR LE DEVELOPPEMENT (IRD)

<120> NOUVEAUX MOYENS POUR LA PREVENTION DES LEISHMANIOSES

<130> CP/BB 61158-2117

<140> PCT/FR04/02955

<141> 2004-11-19

<150> FR 03 13 555

<151> 2003-11-19

<150> FR 04 07 010

<151> 2004-06-25

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<170> PatentIn version 3.1

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2117pct.ST25

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2117pct, ST25

2117pct.ST25

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2117pct.ST25

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Ala Gly Thr Ser Asp Phe Thr Glu Ala Gln Gln Thr Asn Thr Leu Thr
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Val Leu Gln Ala Phe Ala Arg Ala Ile Pro Ala Leu Gly Asp Thr Trp
 50 55 60

Thr Gly Ser Asp Phe Cys Ser Trp Lys His Ile Ile Cys Asp Ser Pro
 65 70 75 80

Gly Val Gly Val Trp Met Gly Asp Val Asp Tyr Thr Gly Thr Leu Pro
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Glu Met Pro Ala Ser Val Asp Tyr Lys Asp Val Met Ile Thr Glu Leu
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Asn Phe Ser Ala Met Gly Gln Gly Leu Ser Gly Thr Leu Pro Pro Ser
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Trp Ser Ser Leu Thr Ser Leu Ile Ser Leu Cys Ile Glu Lys Ser Glu
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Lys Val Thr Gly Thr Leu Pro Ala Gln Trp Ser Ser Met Thr Ser Leu
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Asp Asn Leu Asn Leu His Asp Thr Ala Val Ser Gly Thr Leu Pro Ala
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Gln Trp Ser Ser Met Lys Gln Leu Thr Val Leu Asp Leu Glu Gly Thr
 180 185 190

Lys Val Ser Gly Thr Leu Pro Ser Glu Trp Ser Gly Met Ala Lys Ala
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Glu Ala Val Gln Leu Glu Asn Cys Gly Leu Ser Gly Ser Leu Pro Pro
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Ser Trp Ser Ala Met Pro Lys Leu Arg Ile Val Ser Leu Ser Gly Asn
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Asp Val Thr Ile Glu Glu Trp His Met Gly Glu Asp Cys Lys Leu Ala
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2117pct.ST25

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Ala Arg Cys Ala Arg Cys Arg Glu Gly Tyr Ser Leu Thr Asp Glu Lys
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35 40 45

Ser Leu Ile Ser Leu Cys Ile Glu Lys Ser Glu Lys Val Thr Gly Thr
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Leu Pro Ala Gln Trp Ser Ser Met Thr Ser Leu Asp Asn Leu Asn Leu
65 70 75 80

His Asp Thr Ala Val Ser Gly Thr Leu Pro Ala Gln Trp Ser Ser Met
85 90 95

Lys Gln Leu Thr Val Leu Asp Leu Glu Gly Thr Lys Val Ser Gly Thr
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Leu Pro Ser Glu Trp Ser Gly Met Ala Lys Ala Glu Ala Val Gln Leu
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Glu Asn Cys Gly Leu Ser Gly Ser Leu Pro Pro Ser Trp Ser Ala Met
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Pro Lys Leu Arg Ile Val Ser Leu Ser Gly Asn His Phe Cys Gly Cys
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Val Pro Asp Ser Trp Arg Glu Lys Asp Arg Leu Asp Val Thr Ile Glu
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Glu Trp His Met Gly Glu Asp Cys Lys Leu Ala Asn Ala Cys Arg Pro
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Thr Ala Ala Pro Gly Thr Thr Thr Asn Pro Pro Thr Thr Thr Gly
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Thr Pro Ala Ala Ser Ser Thr Pro Ser Pro Gly Ser Gly Cys Glu Val
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Asp Gly Cys Glu Val Cys Glu Gly Asp Ser Ala Ala Arg Cys Ala Arg
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Cys Arg Glu Gly Tyr Ser Leu Thr Asp Glu Lys Thr Cys Val Ala Asn
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Ser Leu Met Ser Leu Trp Ile Glu Lys Ser Glu Lys Val Thr Gly Thr
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Leu Pro Thr Gln Trp Ser Ser Met Lys Gln Leu Thr Leu Leu His Leu
 65 70 75 80

Lys Gly Thr Lys Val Ser Gly Thr Leu Pro Pro Glu Trp Ser Gly Met
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Thr Ser Leu Asp Asp Leu Asn Leu His Asp Thr Ala Val Ser Gly Thr
 100 105 110

Leu Pro Ala Gln Trp Ser Ser Met Lys Gln Leu Ile Asp Leu Asp Leu
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Glu Gly Thr Lys Val Ser Gly Thr Leu Pro Pro Glu Trp Ser Gly Met
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Ala Lys Ala Glu Ala Leu Gln Leu Lys Tyr Cys Asp Leu Ser Gly Ser
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Leu Pro Pro Ser Trp Ser Ser Met Gln Lys Leu Arg Ile Val Ser Leu
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Ser Gly Asn His Phe Cys Gly Cys Val Pro Asp Ser Trp Arg Glu Lys
 180 185 190

Asp Arg Leu Asp Val Thr Ile Glu Glu Trp His Met Gly Glu Asp Cys
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Lys Leu Ala Asn Ala Cys Arg Pro Thr Ala Ala Pro Gly Thr Thr Thr
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Thr Asn Pro Pro Thr Thr Gly Thr Pro Ala Ala Ser Ser Thr Pro
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Asp Ser Ala Ala Arg Cys Ala Arg Cys Arg Glu Gly Tyr Ser Leu Thr
 260 265 270

Asp Glu Lys Thr Cys Leu Ala Asn His Asp Gly Gly Val Ala Ala Ala
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2117pct.ST25

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Phe Leu Tyr Phe Ser Val Pro Cys Cys Pro Pro Lys Lys Lys Lys Lys
50 55 60

Lys Lys Ile Gly Val Trp Met Gly Asp Val Asp Tyr Thr Gly Thr Leu
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Pro Glu Met Pro Ala Ser Val Asp Tyr Lys Asp Val Met Ile Thr Glu
85 90 95

Leu Asn Phe Gly Ala Met Gly Gln Gly Leu Ser Gly Thr Leu Pro Pro
100 105 110

Ser Trp Ser Ser Met Lys Gln Leu Ile Asp Leu Asp Leu Glu Gly Thr
115 120 125

Lys Val Ser Gly Thr Leu Pro Pro Glu Trp Ser Gly Met Ala Lys Ala
130 135 140

Glu Ala Leu Gln Leu Lys Tyr Cys Asp Leu Ser Gly Ser Leu Pro Pro
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Ser Trp Ser Ser Met Gln Lys Leu Arg Ile Val Ser Leu Ser Gly Asn
165 170 175

His Phe Cys Gly Cys Val Pro Asp Ser Trp Arg Glu Lys Asp Arg Leu
180 185 190

Asp Val Thr Ile Glu Glu Trp His Met Gly Glu Asp Cys Lys Leu Ala
195 200 205

Asn Ala Cys Arg Pro Thr Ala Ala Pro Gly Thr Thr Thr Asn Pro
210 215 220

Pro Thr Thr Thr Gly Thr Pro Ala Ala Ser Ser Thr Pro Ser Pro Gly
225 230 235 240

2117pct.ST25

Ser Gly Cys Glu Val Asp Gly Cys Glu Val Cys Glu Gly Asp Ser Ala
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Ala Arg Cys Ala Arg Cys Arg Glu Gly Tyr Ser Leu Thr Asp Glu Lys
260 265 270

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Leu Val Ala
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Val Asp Tyr Lys Asp Val Met Ile Thr Glu Leu Asn Phe Ser Ala Met
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Gly Gln Gly Leu Ser Gly Thr Leu Pro Pro Ser Trp Ser Ser Leu Thr
35 40 45

Ser Leu Ile Ser Leu Cys Ile Glu Lys Ser Glu Lys Val Thr Gly Thr
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Leu Pro Ala Gln Trp Ser Ser Met Thr Ser Leu Asp Asn Leu Asn Leu
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His Asp Thr Ala Val Ser Gly Thr Leu Pro Pro Glu Trp Ser Gly Met
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Thr Ser Leu Asp Asp Leu Asn Leu His Asp Thr Ala Val Ser Gly Thr
100 105 110

Leu Pro Ala Gln Trp Ser Ser Met Lys Gln Leu Ile Asp Leu Asp Leu
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Glu Gly Thr Lys Val Ser Gly Thr Leu Pro Pro Glu Trp Ser Gly Met
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2117pct.ST25

Ala Lys Ala Glu Ala Leu Gln Leu Lys Tyr Cys Asp Leu Ser Gly Ser
 145 150 155 160

Leu Pro Pro Ser Trp Ser Ser Met Gln Lys Leu Arg Ile Val Ser Leu
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Ser Gly Asn His Phe Cys Gly Cys Val Pro Asp Ser Trp Arg Glu Lys
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2117pct.ST25

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Lys	Gly	Asp	Asp	Phe	Cys	Phe	Trp	Glu	Ser	val	val	val	Arg	Cys	Asp
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Ala Trp Ala Val Arg Cys Pro Pro Arg Gly Ala Arg Trp Ser Leu Trp
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Cys Arg Cys Gly Leu Arg Val Val Lys Val Leu Pro Ala Ser Cys Arg
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Leu Ser Gly Ala Arg Trp Asn Arg Trp Glu Ile Ser Ile Cys Met Ala
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Arg Arg Phe Pro Ala Arg Cys Arg Leu Ser Gly Ala Arg Trp Asn Arg
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Leu Ser Gly Ala Gln Trp Asn Pro Trp Pro Phe Ser Val Trp Met Ala
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Arg Arg Phe Pro Ala Arg Cys His Pro Ser Gly Ala Arg Trp His Arg
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Trp Ala Phe Ser Val Trp Arg Val Leu Ser Ser Pro Ala Arg Tyr Arg
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Pro Ser Gly Ser Gly Met Thr Ser Leu Val Thr Leu Phe Leu Gln Gly
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Thr Gln Val Ser Gly Thr Leu Pro Pro Gln Trp Arg Ser Met Leu Asn
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Pro Glu Trp Ala Ala Met Pro Lys Leu Arg His Val Glu Leu Lys Gly
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Asn Gln Phe Ala Gly Cys Val Pro Asp Ser Trp Ala Gln Lys Ala Gly
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Leu Val Val Glu Ile Glu Asp Lys His Thr Gly Asn Ser Cys Ile Ala
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Gly Ala Asp Cys Ala Thr Thr Thr Thr Thr Glu Pro Thr Ser
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Thr Ala Ser Pro Thr Ala Thr Pro Thr Ser Ala Pro Glu Thr Glu Cys
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Glu Val Asp Gly Cys Glu Val Cys Asp Gly Asp Ser Ala Ala Arg Cys
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Ala Arg Cys Arg Glu Gly Tyr Phe Leu Thr Asp Glu Arg Thr Cys Leu
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Val Tyr Arg Asp Gly Gly Val Val Ala Val Ser Ile Gly Ala Ala Ala
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Ala Ala Val Val Cys Met Ala Val Leu Leu Ser Val Gly Leu Ala Ala
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